

115W

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 5,807,715
DATED : September 15, 1998
INVENTOR(S) : S.L. Morrison, Herzenberg, L.A. and Oi, V.T.

Page 1 of 4

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Title page, Item [54], and Column 1, lines 2 and 5,

Delete "LYMPHOCYTE" and replace with -- LYMPHOCYTIC --; after "IMMUNOGLOBULIN", add -- AND FRAGMENTS --.

Item [75], Inventors, delete "Scarsdale, N.Y." and replace with -- Los Angeles --; delete "Menlo Park" and replace with -- Mountain View --; delete "both" and replace with -- all --.

Item [56], in **References Cited**, after "Seno et al 1983 Nucleic", delete "Acid" and replace with -- Acids --; after "Research 11 (3)", delete ";" and replace with -- : --; and after "Dolby et al 1980 PNAS 77 (10)" add -- : --.

Column 1,

Line 16, add the paragraph -- The work described herein was supported in part by grants from the National Institutes of Health (NIH), including AI-00408, AI-08917, CA-04681, and CA-16858. The United States Government has certain rights in the invention. --

Line 19, delete "1."

Line 41, delete "2."

Line 61, after "functional", add -- , --; after "assembled", add -- , --.

Line 66, delete "mouse-" and replace with -- mouse: --.

Line 67, delete ":".

Column 3,

Line 26, delete "prepar" and replace with -- prepara --.

Line 32, delete "CDNA" and replace with -- cDNA --.

Column 4,

Line 45, delete "CDNA" and replace with -- cDNA --.

Line 52, delete "CDNA" and replace with -- cDNA --.

Line 59, delete "CDNA" and replace with -- cDNA --.

Line 65, delete "Joining" and replace with -- joining --.

Column 8,

Line 2, after "immunization", add -- , --.

Line 21, delete "VH" and replace with -- V_H --.

Line 22, delete "Vκ" and replace with -- V_κ --.

Line 24, delete "VH" and replace with -- V_H --.

Line 29, delete "Vκ" and replace with -- V_κ --.

Line 31, delete "Jκ" and replace with -- J_κ --; delete "Cκ" and replace with -- C_κ --.

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Page 2 of 4

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 9,

Line 9, delete "Five" and replace with -- Fine --; delete "Chamicals" and replace with -- Chemicals --.

Line 19, delete "VH-VL" and replace with -- V_H-V_L --.

Line 57, delete "H2L2" and replace with -- H_2L_2 --.

Line 67, delete "K" and replace with -- K --; delete "antiodies" and replace with -- antibodies --.

Column 10,

Line 5, after "expected" add -- , --.

Line 10, delete "VH" and replace with -- V_H --; delete "V κ " and replace with -- V_κ --.

Line 14, delete "mouse: human" and replace with -- mouse:human --.

Line 22, delete "VH" and replace with -- V_H --; delete "V κ " and replace with -- V_κ --.

Line 36, delete "Mr" and replace with -- M_r --.

Line 42, delete "Mr" and replace with -- M_r --.

Line 54, delete "hybri-doma-" and replace with -- hybridoma --.

Column 11,

Line 5, delete "V κ " and replace with -- V_κ --.

Line 10, delete "mouse: human" and replace with -- mouse:human --.

Line 21, delete "use" and replace with -- used --.

Line 35, delete "IgG₁, IgG₂, IgG₃, IgG₄, rabbit IgG and mouse IgG₃" and replace with -- IgG₁, IgG₂, IgG₃, IgG₄, rabbit IgG and mouse IgG₃ --.

Line 37, delete "(delta)" and replace with -- Δ --.

Line 41, delete "V κ " and replace with -- V_κ --.

Line 43, after "Ann" add -- . --.

Line 44, delete "V κ " and replace with -- V_κ --.

Line 60, delete "pure, >95%" and replace with -- pure (>95%) --.

Line 63, delete "mouse-human" and replace with -- mouse:human --.

Line 64, delete "IgG₃" and replace with -- IgG₃ --.

Column 12,

Line 3, delete "IgG₁" and replace with -- IgG₁ --.

Line 10, delete "affinity purified" and replace with -- affinity-purified --.

Line 22, delete "labelling" and replace with -- labeling --.

Line 26, delete "pp." and replace with -- p. --.

Line 31, after "Kornfeld" add -- , --.

Line 32, delete "Wigzell Proc," and replace with -- Wigzell, Proc. --.

Line 33, after "et al." add -- , --.

Line 42, delete "IgG₁-IgG_{2a}" and replace with -- IgG₁-IgG_{2a} --.

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Page 3 of 4

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 12 cont'd.

Line 64, delete "IgG₁" and replace with -- IgG₁ --; delete "IgG_{2a}" and replace with -- IgG_{2a} --.

Line 65, delete "IgG_{2a}" and replace with -- IgG_{2a} --; delete "IgG₁" and replace with -- IgG₁ --.

Column 13.

Line 4, delete "T₄" and replace with -- T₄ --.

Line 43, after "Gilbert" add -- , --.

Line 65, delete "Dangi" and replace with -- Dangi --

Column 14.

Line 24, delete "bateria" and replace with -- bacteria --.

Line 41, delete "C." and replace with -- C --.

Line 53, delete "labelled" and replace with -- labeled --.

Column 15.

Line 5, delete "IgG₁" and replace with -- IgG₁ --; delete "IgG_{2a}" and replace with -- IgG_{2a} --.

Line 25, delete "pHGX1C_{γ2a}B" and replace with -- pHGX1C_{γ1}B --.

Line 27, delete "Trp⁺" and replace with -- TRP⁺ --.

Line 39, delete "Trp⁺" and replace with -- TRP⁺ --.

Line 44, delete "IgG₁" and replace with -- IgG₁ --.

Line 45, delete "IgG_{2a}" and replace with -- IgG_{2a} --

Line 46, delete "-7" and replace with -- ⁻⁷ --.

Line 49, delete "IgG_{2a}" and replace with -- IgG_{2a} --

Line 50, delete "IgG₁" and replace with -- IgG₁ --.

Column 16.

Line 2, delete "IgG₁" and replace with -- IgG₁ --.

Line 3, delete "IgG_{2a}" and replace with -- IgG_{2a} --.

Line 18, delete "Mr" and replace with -- M_r --.

Line 29, delete "are" and replace with -- is --; delete "IgG₁" and replace with -- IgG₁ --.

Line 30, delete "IgG_{2a}" and replace with -- IgG_{2a} --.

Line 44, delete "IgG_{2a}" and replace with -- IgG_{2a} --.

Column 17.

Line 63, delete "P₃" and replace with -- P₃ --.

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Page 4 of 4

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 18,

Line 57, delete "P₃" and replace with -- P3 --.

Column 19,

Line 33, delete "P₃" and replace with -- P3 --.

Column 20,

Line 50, delete "39" and replace with -- 37 --.

Line 52, delete "are".

Line 53, delete "are".

Line 58, delete "are".

Line 59, delete "are".

Column 21,

Line 13, shift line beginning with "express" to left margin.

Line 14, shift line beginning with "specifically" to left margin.

Line 29, delete "arc" and replace with -- are --.

Column 22,

Line 43, delete "arc" and replace with -- are --.

Signed and Sealed this

Ninth Day of July, 2002

Attest:

A handwritten signature in black ink, appearing to read "James E. Rogan", with a long horizontal flourish extending to the right.

Attesting Officer

JAMES E. ROGAN
Director of the United States Patent and Trademark Office



COFC

9210
#69
[Signature]

UNITED STATES PATENT AND TRADEMARK OFFICE

Patentees : Sherie L. Morrison
Leonard A. Herzenberg
Vernon T. Oi

Patent No. : 5,807,715

Issued : September 15, 1998

On Application
Serial No. : 08/266,154

For : METHODS AND TRANSFORMED MAMMALIAN
LYMPHOCYTIC CELLS FOR PRODUCING
FUNCTIONAL ANTIGEN-BINDING PROTEIN
INCLUDING CHIMERIC IMMUNOGLOBULIN
AND FRAGMENTS

Group Art Unit : 1642

Examiner : Julie E. Reeves, Ph.D.

Hon. Asst. Commissioner for Patents
Attn: Certificate of Correction Branch
Washington, D.C. 20231

APPROVED

JUN 19 2002 *[Signature]*

FOR THE DIRECTOR OF USPTO

CERTIFICATE OF CORRECTION

RECEIVED
JUL - 8 1999

REQUEST UNDER 37 C.F.R. § 1.322 AND § 1.323
FOR ISSUANCE OF CORRECTED COPY OF PATENT

Sir:

Enclosed are 8 sheets (in duplicate) of Form PTO-1050 listing corrected printing errors that have been found in the above-identified patent. None of the corrections add new matter.

Two of the listed errors, believed to be the responsibility of the Patent and Trademark Office, are of such import that the patentees and their assignees respectfully request that in lieu of a certificate of correction, the Patent and Trademark Office issue a corrected original ribbon grant of the patent, and a corrected electronic copy of the patent.

07/01/1999 50000156 5807715
01 FC:145
02 FC:585
100.00 DP
45.00 DP

First, one assignee, The Trustees of Columbia University, New York, New York was omitted. Both assignees, The Board of Trustees of The Leland Stanford Junior University and The Trustees of Columbia University, were listed in Part B-Issue Fee Transmittal (and attached sheet), copies of which are attached as Exhibit A. Also attached, as Exhibit B, is the Notice of Recordation of Assignment Document listing Columbia University as an assignee.

Second, the title as printed on the issued patent is in error. The correct title is:

METHODS AND TRANSFORMED MAMMALIAN LYMPHOCYTIC
CELLS FOR PRODUCING FUNCTIONAL ANTIGEN-BINDING
PROTEIN INCLUDING CHIMERIC IMMUNOGLOBULIN AND
FRAGMENTS,

as amended in the Second Amendment After Allowance Pursuant to 37 C.F.R. § 1.312(a), filed May 18, 1998, and entered by the Examiner on May 22, 1998. Copies of the Amendment and the Examiner's Response to Rule 312 Communication are attached as Exhibit C and D, respectively.

The two errors described above are those that motivate the present request for issuance of a new patent. Form PTO-1050 lists additional corrections, most of which report clear typographical errors. However, two corrections are requested in the claims, meriting additional discussion.

First, claim 41, as corrected, would depend from claim 37, rather than claim 39. Applicants believe that this correction is necessitated by incorrect renumbering by the Patent and Trademark Office of amended claim 136, filed in the Second Amendment After Allowance.

Second, the requested deletion of two separate uses of the word "are" in each of claims 41 and 42 corrects grammatical difficulties present in the claims as issued,



#67
EJ

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patentees : Sherie L. Morrison
Leonard A. Herzenberg
Vernon T. Oi

Patent No. : 5,807,715

Issued : September 15, 1998

On Application
Serial No. : 08/266,154

For : METHODS AND TRANSFORMED MAMMALIAN
LYMPHOCYTIC CELLS FOR PRODUCING
FUNCTIONAL ANTIGEN-BINDING PROTEIN
INCLUDING CHIMERIC IMMUNOGLOBULIN
AND FRAGMENTS

Group Art Unit : 1642

Examiner : Julie E. Reeves, Ph.D.

Hon. Asst. Commissioner for Patents
Attn: Certificate of Correction Branch
Washington, D.C. 20231

REQUEST UNDER 37 C.F.R. § 1.322 AND § 1.323
FOR ISSUANCE OF CORRECTED COPY OF PATENT

Sir:

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Two of the listed errors, believed to be the responsibility of the Patent and Trademark Office, are of such import that the patentees and their assignees respectfully request that in lieu of a certificate of correction, the Patent and Trademark Office issue a corrected original ribbon grant of the patent, and a corrected electronic copy of the patent.

43799230 43799230 43799230

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Second, the requested deletion of two separate uses of the word "are" in each of claims 41 and 42 corrects grammatical difficulties present in the claims as issued,

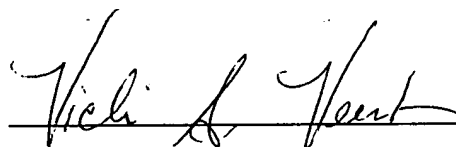
and does not add new matter or change the scope of the claims.

Some of the corrected errors were made by the applicants. Accordingly, enclosed herewith is a check for \$100.00 in payment of the fee set forth in 37 C.F.R. § 1.20(a). We also request 15 printed copies of the patent, if the corrected patent is issued; a check in the amount of \$45.00 to cover the cost of the copies is enclosed. The Commissioner is hereby authorized to charge any additional fees due, or credit any overpayment, in connection with these respective Requests to Deposit Account No. 06-1075. A duplicate copy of this Request for Issuance of Corrected Copy of Patent is enclosed herewith.

If any questions arise from the foregoing, the Applicants invite an inquiry to the undersigned by telephone at (650) 617-4011.

Respectfully submitted,

Dated: June 25, 1999


Vicki S. Veenker
Registration No. 34,269
Attorney for Patentees

c/o FISH & NEAVE
1251 Avenue of the Americas
New York, New York 10020
(650) 617-4000

Attachments:

I hereby Certify that this Correspondence is being Deposited with the U.S. Postal Service as First Class Mail in an Envelope Addressed to: ASSISTANT COMMISSIONER FOR PATENTS WASHINGTON, D.C. 20231, ON

• Exhibit A
Part B-Issue Fee Transmittal, Form PTOL-85B, and attached sheet, applic. ser. no. 08/266,154

• Exhibit B
Notice of Recordation of Assignment Document, applic. ser. no. 07/090,669

June 25, 1999

MARTHA D. JOHNSON


Signature of Person Signing

Attachments (cont.):

- Exhibit C
Pages 1 - 8 of Second Amendment After Allowance,
May 18, 1998, applic. ser. no. 08/266,154
- Exhibit D
Response to Rule 312 Communication entering Second
Amendment After Allowance, applic. ser.
no.08/266,154

Enclosures:

- PTO-1050 (8 sheets, in duplicate)
- Check in the amount of \$100.00, for providing a
certificate of correction under 37 C.F.R. § 1.323.
- Check in the amount of \$45.00, to cover the fee
for 15 printed copies of the corrected patent.

162200 45799200

Additional Assignee Name and Residence Data to be Printed on the Patent

(A) Name of Assignee The Trustees of Columbia University

(B) Residence: (City & State or Country)
New York, New York

☐ Individual ☒ Corporation or other private group entity ☐ Government

462290-4349280

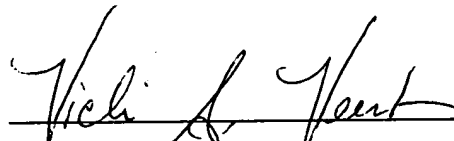
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Dated: June 25, 1999


Vicki S. Veenker
Registration No. 34,269
Attorney for Patentees

c/o FISH & NEAVE
1251 Avenue of the Americas
New York, New York 10020
(650) 617-4000

Attachments:

I hereby Certify that this
Correspondence is being
Deposited with the U.S.
Postal Service as First
Class Mail in an Envelope
Addressed to: ASSISTANT
COMMISSIONER FOR PATENTS
WASHINGTON, D.C. 20231, ON

- Exhibit A
Part B-Issue Fee Transmittal, Form PTOL-85B, and
attached sheet, applic. ser. no. 08/266,154
- Exhibit B
Notice of Recordation of Assignment Document,
applic. ser. no. 07/090,669

June 25, 1999

MARTHA D. JOHNSON


Signature of Person Signing

Attachments (cont.):

- Exhibit C
Pages 1 - 8 of Second Amendment After Allowance,
May 18, 1998, applic. ser. no. 08/266,154
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Response to Rule 312 Communication entering Second
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DATED : September 15, 1998

INVENTOR(S): S.L. Morrison, Herzenberg, L.A., and Oi, V.T.

It is certified that error appears in the above-identified patent and that said Letters Patent are hereby corrected as shown below:

In the Title [54], delete "LYMPHOCYTE" and replace with LYMPHOCYTIC--; after "IMMUNOGLOBULIN", add --AND FRAGMENTS--

In the Inventors [75], delete "Scarsdale, N.Y." and replace with --Los Angeles--; delete "Menlo Park" and replace with --Mountain View--; delete "both" and replace with --all--.

In the Assignee [73], delete "Assignee" and replace with --Assignees--; after "Calif.", add --, and The Trustees of Columbia University, New York, N.Y.--.

In References Cited [56], after "Seno et al 1983 Nucleic", delete "Acid" and replace with --Acids--; after "Research 11(3)", delete ";" and replace with --:--.

In References Cited [56], after "Dolby et al 1980 PNAS... 77(10)" add --:--.

Column 1, line 2, delete "LYMPHOCYTE" and replace with --LYMPHOCYTIC--.

Column 1, line 5, after "IMMUNOGLOBULIN" add --AND FRAGMENTS--.

Column 1, line 16, add the paragraph --The work described herein was supported in part by grants from the National Institutes of Health (NIH), including AI-00408, AI-08917, CA-04681, and CA-16858. The United States Government has certain rights in the invention.--

Column 1, line 19, delete "1."

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1251 Avenue of the Americas
New York, NY 10020

PATENT NO. 5,807,715

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Column 1, line 41, delete "2."

Column 1, line 61, after "functional", add --,--; after "assembled", add --,--.

Column 1, line 66, delete "mouse-" and replace with --mouse:--.

Column 1, line 67, delete ":".

Column 3, line 26, delete "prepar" and replace with --prepara--.

Column 3, line 32, delete "CDNA" and replace with --cDNA--.

Column 4, line 45, delete "CDNA" and replace with --cDNA--.

Column 4, line 52, delete "CDNA" and replace with --cDNA--.

Column 4, line 59, delete "CDNA" and replace with --cDNA--.

Column 4, line 65, delete "Joining" and replace with --joining--.

Column 8, line 2, after "immunization", add --,--.

Column 8, line 21, delete "VH" and replace with --V_H--.

Column 8, line 22, delete "V_κ" and replace with --V_κ--
(Greek letter kappa subscripted).

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Column 8, line 24, delete "VH" and replace with --V_H--.

Column 8, line 29, delete "Vk" and replace with --V_κ--
(Greek letter kappa subscripted).

Column 8, line 31, delete "Jk" and replace with --J_κ--
(Greek letter kappa subscripted); delete "Ck" and replace with --
C_κ-- (Greek letter kappa subscripted).

Column 9, line 9, delete "Five" and replace with --Fine--;
delete "Chamicals" and replace with --Chemicals--.

Column 9, line 19, delete "VH-VL" and replace with --V_H-V_L--.

Column 9, line 57, delete "H2L2" and replace with --H₂L₂--.

Column 9, line 67, delete "K" and replace with --κ--; delete
"antiodies" and replace with --antibodies--.

Column 10, line 5, after "expected" add --,--.

Column 10, line 10, delete "VH" and replace with --V_H--;
delete "Vk" and replace with --V_κ-- (Greek letter kappa
subscripted).

Column 10, line 14, delete "mouse: human" and replace with --
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Column 10, line 22, delete "VH" and replace with --V_H--;
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Column 10, line 36, delete "Mr" and replace with --M_r--.

Column 10, line 42, delete "Mr" and replace with --M_r--.

Column 10, line 54, delete "hybri-doma-" and replace with --hybridoma--.

Column 11, line 5, delete "V_k" and replace with --V_κ--
(Greek letter kappa subscripted).

Column 11, line 10, delete "mouse: human" and replace with --mouse:human--.

Column 11, line 21, delete "use" and replace with --used--.

Column 11, line 35, delete "IgG₁, IgG₂, IgG₃, IgG₄, rabbit IgG and mouse IgG₃" and replace with --IgG₁, IgG₂, IgG₃, IgG₄, rabbit IgG and mouse IgG₃--.

Column 11, line 37, delete "(delta)" and replace with --Δ--
(Greek letter capital delta).

Column 11, line 41, delete "V_k" and replace with --V_κ--
(Greek letter kappa subscripted).

Column 11, line 43, after "Ann" add --.---.

Column 11, line 44, delete "V_k" and replace with --V_κ--
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Column 11, line 60, delete "pure, >95%" and replace with --pure (>95%)--.

Column 11, line 63, delete "mouse-human" and replace with --mouse:human--.

Column 11, line 64, delete "IgG₃" and replace with --IgG3--.

Column 12, line 3, delete "IgG₁" and replace with --IgG1--.

Column 12, line 10, delete "affinity purified" and replace with --affinity-purified--.

Column 12, line 22, delete "labelling" and replace with --labeling--.

Column 12, line 26, delete "pp." and replace with --p.--.

Column 12, line 31, after "Kornfeld" add --,--.

Column 12, line 32, delete "Wigzell Proc," and replace with --Wigzell, Proc.--.

Column 12, line 33, after "et al." add --,--.

Column 12, line 42, delete "IgG₁-IgG_{2a}" and replace with --IgG1-IgG2a--.

Column 12, line 64, delete "IgG₁" and replace with --IgG1--; delete "IgG_{2a}" and replace with --IgG2a--.

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INVENTOR(S): S.L. Morrison, Herzenberg, L.A., and Oi, V.T.

It is certified that error appears in the above-identified patent and that said Letters Patent are hereby corrected as shown below:

Column 12, line 65, delete "IgG_{2a}" and replace with --IgG_{2a}--; delete "IgG₁" and replace with --IgG₁--.

Column 13, line 4, delete "T₄" and replace with --T₄--.

Column 13, line 43, after "Gilbert" add --,--.

Column 13, line 65, delete "Dangi" and replace with --Dangl--.

Column 14, line 24, delete "bateria" and replace with --bacteria--.

Column 14, line 41, delete "C." and replace with --C--.

Column 14, line 53, delete "labelled" and replace with --labeled--.

Column 15, line 5, delete "IgG₁" and replace with --IgG₁--; delete "IgG_{2a}" and replace with --IgG_{2a}--.

Column 15, line 25, delete "pHGX1C_{v2}aB" and replace with --pHGX1C_{v1}B--.

Column 15, line 27, delete "Trp⁺" and replace with --TRP⁺--.

Column 15, line 39, delete "Trp⁺" and replace with --TRP⁺--.

Column 15, line 44, delete "IgG₁" and replace with --IgG₁--.

MAILING ADDRESS OF SENDER: Fish & Neave

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UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

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DATED : September 15, 1998

INVENTOR(S): S.L. Morrison, Herzenberg, L.A., and Oi, V.T.

It is certified that error appears in the above-identified patent and that said Letters Patent are hereby corrected as shown below:

Column 15, line 45, delete "IgG_{2a}" and replace with --IgG2a--

Column 15, line 49, delete "IgG_{2a}" and replace with --IgG2a--

Column 15, line 50, delete "IgG₁" and replace with --IgG1--.

Column 15, line 46, delete "-7" and replace with --7--.

Column 16, line 2, delete "IgG₁" and replace with --IgG1--.

Column 16, line 3, delete "IgG_{2a}" and replace with --IgG2a--.

Column 16, line 18, delete "Mr" and replace with --M_r--.

Column 16, line 29, delete "are" and replace with --is--;
delete "IgG₁" and replace with --IgG1--.

Column 16, line 30, delete "IgG_{2a}" and replace with --IgG2a--

Column 16, line 44, delete "IgG_{2a}" and replace with --IgG2a--

Column 17, line 63 (claim 7), delete "P₃" and replace with --
P3--.

Column 18, line 57 (claim 17), delete "P₃" and replace with --
-P3--.

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INVENTOR(S): S.L. Morrison, Herzenberg, L.A., and Oi, V.T.

It is certified that error appears in the above-identified patent and that said Letters Patent are hereby corrected as shown below:

Column 19, line 33 (claim 27), delete "P₃" and replace with -P3--.

Column 20, line 50 (claim 41), delete "39" and replace with -37--.

Column 20, line 52 (claim 41), delete "are".

Column 20, line 53 (claim 41), delete "are".

Column 20, line 58 (claim 42), delete "are".

Column 20, line 59 (claim 42), delete "are".

Column 21, line 13, shift line beginning with "express" to left margin.

Column 21, line 14, shift line beginning with "specifically" to left margin.

Column 21, line 29 (claim 48), delete "arc" and replace with --are--.

Column 22, line 43 (claim 59), delete "arc" and replace with --are--.

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